



# Patch panel, 24 ports RJ45, unloaded



## Standards of reference and applications

EIA19"

## Installation Features

**Store at** -0 to +70 °C

**Install at** -0 to +50 °C

**Operate at** : -20 to +60 °C

**Fitting** : designed for unshielded and shielded LAN 1 unit EIA 19" rack mount.

## Design

**Material** : black powder painted steel (front), galvanised steel (rear).

**Features** : built-in cable holder rack with cable shield termination.

**Printing :** Numbered 1-24

**Size :** 18.4 x 38.4 x 25.7 mm, 1 Unit

## Ordering and delivery information

Ports	P/N	Size [mm]	Weight [kg/km]	Packaging
24	PPE24SU	18.4H x 38.4W x 25.7D	1.0	1 pc/box

## Recommended connectivity

**Keystone jack :** all APS Keystone Jacks Category 5e, 6, 6A.

**Patchcords :** PCMJ6U\_, PCMJ6F\_, PCMJ6S\_.

## Extended System Warranty

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## **SCS6U Cat.6 cable U/UTP 4 pairs AWG23/1 LSZH Indoor**



### **Standards of reference and applications**

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

Ethernet 10 BASE-T, 100 BASE-T, 100 BASE-TX, 155 Mbit ATM, 625 Mbit ATM, 1.2 Gbit ATM

## Installation Features

**Store at** -0 to +70 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

**Bend minimum** : 10 times O.D.

**Bend minimum** : 10 times O.D.

**Pull maximum** : 40N

## Design

**Conductor** : solid bare copper AWG23 (0.55mm)

**Insulation** : polyethylene  $0.98 \pm 0.01$  mm

**Pair** : 2 insulated conductors stranded together

**Colour code** : 1.White/blue 2.White/orange 3. White/green 4.White/brown

**Assembling** : no 4 pairs assembled together around a PE central cross

**Screen** : N/A

**Outer jacket** : grey LSZH material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 LSZH - Extended  
Frequency 250MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2

**Halogen acid gas** : IEC 60754-1, IEC 60754-2

**Smoke Emission** : IEC 61034-2, EN 50268-2

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : EN 60332-1-2

**CPR Class (CE)** : Class Dca

## Electrical characteristics

**Resistance of the conductor @ 20°C** :  $\leq 90 \Omega/\text{km}$

**Mutual Capacitance** : 52 pF/m (cond/cond)

**Capacitance unbalance** : 1500 pF/km (p/p @ 1KHz)

**Average characteristic impedance** :  $100 \pm 15 \Omega @ 100\text{MHz}$

**Velocity of propagation (NVP)** : 66%

Frequency (MHz) :	1	4	10	16	20	31,5	62,5	100	155	200	250
Attenuation (dB/100m)	2.0	3.8	6.0	7.6	8.5	10.8	15.5	19.9	24.70	29.1	33
NEXT (dB)	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	41.7	39.8	38.3
PS-NEXT (dB)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.7	37.8	36.3
ELFEXT (dB)	67.8	55.8	47.8	45.9	41.8	42.0	42.0	27.8	24.3	21.8	20.4
PS-ELFEXT (dB)	64.8	52.8	44.8	43.0	38.8	35.0	29.1	25.0	21.3	19.0	17.0
Return Loss	20	23.0	25.0	25.0	25.0	21.5	21.5	20.1	18.9	18.0	17.3

## Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging
4 pairs	W5UX042M0S30	6.5	36.8	305m / 1000ft box

## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_



## SCS6U Cat.6 cable U/UTP 4 pairs AWG24/1 PE Outdoor



## Standards of reference and applications

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

Ethernet 10 BASE-T, 100 BASE-T, 100 BASE-TX, 155 Mbit ATM, 625 Mbit ATM, 1.2

Gbit ATM

## Installation Features

**Store at** -0 to +70 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

**Bend minimum** : 10 times O.D.

**Bend minimum** : 10 times O.D.

**Pull maximum** : 40N

## Design

**Conductor** : solid bare copper AWG23 (0.55mm)

**Insulation** : polyethylene 0.98 ± 0.01 mm

**Pair** : 2 insulated conductors stranded together

**Colour code** : 1.White/blue 2.White/orange 3. White/green 4.White/brown

**Assembling** : no 4 pairs assembled together around a PE central cross

**Screen** : N/A

**Outer jacket** : black PE material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 PE Outdoor -  
Extended Frequency 250MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

**UV Resistant** : UL 1581

## Electrical characteristics

**Resistance of the conductor @ 20°C :** ≤ 90 Ω/km

**Mutual Capacitance :** 52 pF/m (cond/cond)

**Capacitance unbalance :** 1500 pF/km (p/p @ 1KHz)

**Average characteristic impedance :** 100 ± 15 Ω @ 100MHz

**Velocity of propagation (NVP) :** 66%

Frequency (MHz) :	1	4	10	16	20	31,5	62,5	100	155	200	250
Attenuation (dB/100m)	2.0	3.8	6.0	7.6	8.5	10.8	15.5	19.9	24.70	29.1	33
NEXT (dB)	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	41.7	39.8	38.3
PS-NEXT (dB)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.7	37.8	36.3
ELFEXT (dB)	67.8	55.8	47.8	45.9	41.8	42.0	42.0	27.8	24.3	21.8	20.4
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Return Loss	20	23.0	25.0	25.0	25.0	21.5	21.5	20.1	18.9	18.0	17.3

## Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging
4 pairs	W5UX042E0S30	6,5	38	305m/1000ft box
4 pairs	W5UX042E0B50	6,5	38	500m/1640ft drum



## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_

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## SCS6U Cat.6 cable U/UTP 4 pairs AWG24/1 PVC Indoor



### Standards of reference and applications

EIA/TIA 568-C.5, ISO/IEC 11801, EN 50288-6-1

Ethernet 10 BASE-T, 100 BASE-T, 100 BASE-TX, 155 Mbit ATM, 625 Mbit ATM, 1.2 Gbit ATM

## Installation Features

**Store at** -0 to +70 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

**Bend minimum** : 10 times O.D.

**Bend minimum** : 10 times O.D.

**Pull maximum** : 40N

## Design

**Conductor** : solid bare copper AWG23 (0.55mm)

**Insulation** : polyethylene  $0.98 \pm 0.01$  mm

**Pair** : 2 insulated conductors stranded together

**Colour code** : 1.White/blue 2.White/orange 3. White/green 4.White/brown

**Assembling** : no 4 pairs assembled together around a PE central cross

**Screen** : N/A

**Outer jacket** : grey PVC material

**Marking** : APS Finland - ww/yy - U/UTP 4x2x23AWG Category 6 PVC - Extended  
Frequency 250MHz 100Ohm - ISO/IEC 11801 - /lot + meter

## Environmental properties and Fire Performances

**Flame retardant** : EN 60332-1-2

**CPR Class (CE)** : Class Eca

## Electrical characteristics

**Resistance of the conductor @ 20°C :** ≤ 90 Ω/km

**Mutual Capacitance :** 52 pF/m (cond/cond)

**Capacitance unbalance :** 1500 pF/km (p/p @ 1KHz)

**Average characteristic impedance :** 100 ± 15 Ω @ 100MHz

**Velocity of propagation (NVP) :** 66%

Frequency (MHz) :	1	4	10	16	20	31,5	62,5	100	155	200	250
Attenuation (dB/100m)	2.0	3.8	6.0	7.6	8.5	10.8	15.5	19.9	24.70	29.1	33
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PS-NEXT (dB)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.7	37.8	36.3
ELFEXT (dB)	67.8	55.8	47.8	45.9	41.8	42.0	42.0	27.8	24.3	21.8	20.4
PS-ELFEXT (dB)	64.8	52.8	44.8	43.0	38.8	35.0	29.1	25.0	21.3	19.0	17.0
Return Loss	20	23.0	25.0	25.0	25.0	21.5	21.5	20.1	18.9	18.0	17.3

## Ordering and delivery information

Pair count	P/N	O.D [mm]	Weight [kg/km]	Packaging
4 pairs	W5UX042W0S30	6.5	36.8	305m / 1000ft box

## Recommended connectivity

**Keystone jack** : MJ6UK / MJ6UC

**RJ45 plug** : RJ45U6PL241 / RJ45U6BL241

**Panel** : PPE24SU

**Patchcords** : PCMJ6U\_



## **SCS6U          Cat.6          Patchcords** **Unscreened U/UTP 4 pairs PVC**



## Standards of reference and applications

ISO 11801, EN 50173 & TIA/EIA 568

100BASE-TX Fast Ethernet, 1000BASE-T Gigabit Ethernet, 155 Mbps ATM, 622 Mbps ATM, Video, Token Ring.

## Product Features

Category 6 Compliant

Backward Compatible

Independently verified

Choice of Colours

T568B wiring

Blade style 'slimline' moulded strain relief boot with clip protector

Individually bagged

## Installation Features

**Store at** -0 to +70 °C

**Install at** -0 to +50 °C

**Operate at** : -10 to +60 °C

**Durability** : > 700 Cycles (in/out)

## Design

**Cable conductor** : stranded bare copper AWG24

**Cable insulation** : polyethylene

**Cable outer jacket** : PVC material, nominal diameter 6.10mm

**Cable marking** : APS Finland – Category 6 U/UTP 4 pairs 24AWG Patch Cable – 100Ohm — ISO/IEC 11801 TIA/EIA-568C.2-1 UL LISTED – m

**Type of connector (end A)** : Plug RJ45 8(8)

**Type of connector (end B)** : Plug RJ45 8(8)

**Type of boot (end A)** : moulded

**Type of boot (end B) :** moulded

## **Environmental properties and Fire Performances**

**Flame retardant :** IEC60332-1

## **Electrical characteristics**

**Dielectric strength :** 2500V for 3 seconds

**Contact resistance :** max 250Ω

**Typical resistance unbalance :** 2%

**Insulation Resistance :** min. 150 MΩ/km

## **Ordering and delivery information**

<b>P/N</b>	<b>Packaging</b>
PCMJ6Uxxc	1 pc/box

xx = meter length (ex. 0,5m = 05; 1m = 1; 2m = 2; 10m = 10; ...)

c = colours = Red (RD), Blue (BU), Black (BK), Green (GN), Yellow(YW), White (WT), Violet (VT), Orange (OR), Pink (PK).

## Recommended connectivity

**Horizontal cable :** W5UX042W, W5UX042M, W5UX042E

**Keystone jack :** MJ6UK / MJ6UC

**Panel :** PPE24SU

## Extended System Warranty

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# SCS6U Keystone jack, U/UTP unscreened, Category 6, Tool-less



## Standards of reference and applications

**Standards:** IEC60603-7-5, ISO/IEC 11801, IL/cUL Safety Standards, EIA/TIA 568b.2-1, EN 50173

**Applications :** 1000BASE-T Gigabit Ethernet , 100BASE-TX Fast Ethernet, 10 Base-T Ethernet, 622Mbps ATM , 155Mbps ATM

## Features

- Standard RJ45 footprint
- Fast, easy, reliable termination
- Clear IDC termination colour coding
- Suitable for foil and braided screen cables
- Available as black&white colour
- 25 Years System Warranty
- Wiring Specifications T568A & T568B

## Installation Features

**Store at** -40 to +70 °C



**Install at** -0 to +50 °C  
**Operate at :** -20 to +60 °C  
**Fitting :** keystone jack

## Design

**Dimensions :** 14.5 x 41.2 x 26.8 mm  
**Material :** Fire retardant polymer  
**Holder and IDC block :** PC resin, UL94 V-O  
**Coating :** 1.27 µm gold  
**PBC :** FR4  
**Shield :** NO  
**Conductor :** 26-22 AWG  
**Connector type :** RJ45 8(8)  
**Connection type :** insulation displacement  
**Round cable outer diameter :** 5.0 – 8.0 mm  
**Flat cable outer diameter :** NO  
**Tool :** no tool  
**Cable tie :** 1 pc  
**Pack :** 24pc/bag – 504pcs/box

## Ordering and delivery information

P/N	Packaging
MJ6UK	24 pcs/box

## **Recommended connectivity**

**Patch panel** : PPE24SU

**Patchcords** : PCMJ6U\_

**Faceplates** : FP86150S245, FP86171S245

## **Extended System Warranty**

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# SCS6U Keystone jack, U/UTP unscreened, Category 6, Tool-less, 180 degrees



## Standards of reference and applications

**Standards :** IEC60603-7-5, ISO/IEC 11801, IL/cUL Safety Standards, EIA/TIA 568b.2-1, EN 50173

**Applications :** 1000BASE-T Gigabit Ethernet , 100BASE-TX Fast Ethernet, 10 Base-T Ethernet, 622Mbps ATM , 155Mbps ATM

## Features

Standard RJ45 footprint

Fast, easy, reliable termination

Clear IDC termination colour coding

Suitable for unscreened cables  
Available as multiple colours  
25 Years System Warranty  
Wiring Specifications T568A & T568B

## Installation Features

**Store at** -40 to +60 °C  
**Install at** -0 to +50 °C  
**Operate at :** -40 to +60 °C  
**Fitting :** keystone jack

## Design

**Dimensions :** 17.59 x 32.16 x 26.94mm  
**Housing :** High-impact Flame Retardant Polycarbonate,UL94V-0  
**Spring Wire :** Phosphor Bronze With Gold-plated 3u-50u  
**IDC Contact :** Phosphor Bronze  
**Insertion life :** ≥1000 mating cycles  
**IDC Accept :** 22-26 AWG  
**Wire Scheme :** T568A/B  
**Insulation Resistance :** 500Ω  
**Current Rating :** 1.5Amps  
**DC Resistance :** 0.1 ohm MAX  
**Voltage :** 150 VAC MAX  
**Plug Retention Force :** 89N  
**Pack :** 24pc/bag - 504pcs/box

**Round cable outer diameter :** 5.0 – 8.0 mm

**Flat cable outer diameter :** NO

**Tool :** no tool

**Cable tie :** 1 pc

**Pack :** 24pc/bag – 504pcs/box

## Ordering and delivery information

<b>Colour</b>	<b>P/N</b>	<b>Packaging</b>
White	MJ6UKF17	24 pcs/box
Blue	MJ6UKF17U	24 pcs/box
Red	MJ6UKF17R	24 pcs/box
Green	MJ6UKF17G	24 pcs/box
Black	MJ6UKF17K	24 pcs/box
Orange	MJ6UKF17O	24 pcs/box

## **Recommended connectivity**

**Patch panel** : PPE24SU

**Patchcords** : PCMJ6U\_

**Faceplates** : FP86150S245, FP86171S245

## **Extended System Warranty**

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# SCS6U Keystone jack, U/UTP unscreened, Category 6, Tool-type



## Standards of reference and applications

**Standards :** IEC60603-7-5, ISO/IEC 11801, IL/cUL Safety Standards, EIA/TIA 568b.2-1, EN 50173

**Applications :** 1000BASE-T Gigabit Ethernet , 100BASE-TX Fast Ethernet, 10 Base-T Ethernet, 622Mbps ATM , 155Mbps ATM

## Features

- Standard RJ45 footprint
- Fast, easy, reliable termination
- Clear IDC termination colour coding
- Suitable for foil and braided screen cables

Available as black&white colour  
25 Years System Warranty  
Wiring Specifications T568A & T568B

## Installation Features

**Store at** -40 to +70 °C  
**Install at** -0 to +50 °C  
**Operate at** : -20 to +60 °C  
**Fitting** : keystone jack

## Design

**Dimensions** : 14.5 x 42.0 x 26.8 mm  
**Material** : Fire retardant polymer  
**Holder and IDC block** : PC resin, UL94 V-O  
**Coating** : 1.27 µm gold  
**PBC** : FR4  
**Shield** : NO  
**Conductor** : 26-22 AWG  
**Connector type** : RJ45 8(8)  
**Connection type** : insulation displacement  
**Round cable outer diameter** : 5.0 - 8.0 mm  
**Flat cable outer diameter** : NO  
**Tool** : punch down tool  
**Cable tie** : 1 pc  
**Pack** : 24pc/bag - 504pcs/box



## Ordering and delivery information

<b>P/N</b>	<b>Packaging</b>
MJ6UK	24 pcs/box

## Recommended connectivity

**Patch panel** : PPE24SU

**Patchcords** : PCMJ6U\_

**Faceplates** : FP86150S245, FP86171S245

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## **SCSACC Single Gang Unloaded Face Plate with 2 x Keystone Jacks**



**Standards of reference and applications**

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## Product Features

Flush mount

2 unloaded ports

Designed for Keystone Jacks

## Installation Features

**Store at** -0 to +60 °C

**Install at** -0 to +50 °C

**Operate at :** -10 to +65 °C

## Design

**Material :**

**Colour :** white

**Height :** 86mm

**Width :** 86mm

**Type of fastening :** Screw

**Outlet direction :** Straight

**Shielded jacks:** yes

**Shielded housing :** no

**Surface mounted :** yes

**Flush mounted (plaster) :** yes

**With label space :** yes

**Coloured ID :** yes

## Ordering and delivery information

<b>P/N</b>	<b>Packaging</b>
FP86171S245	1 pc/bag

## Recommended connectivity

**Keystone jack, unscreened** : MJ6UK, MJ6UKTC

**Keystone jack, unscreened** : KJ6ASTPNH, KJ6ASTPNY

## Extended System Warranty

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# SCSACC Single Gang Unloaded Face Plate with 2 x Keystone Jacks



## Standards of reference and applications

-

## Product Features

Flush mount

2 unloaded ports

Designed for Keystone Jacks

## Installation Features

**Store at** -0 to +60 °C  
**Install at** -0 to +50 °C  
**Operate at** : -10 to +65 °C

## Design

**Material :**  
**Colour :** white  
**Height :** 86mm  
**Width :** 86mm  
**Type of fastening :** Screw  
**Outlet direction :** Straight  
**Shielded jacks:** yes  
**Shielded housing :** no  
**Surface mounted :** yes  
**Flush mounted (plaster) :** yes  
**With label space :** yes  
**Coloured ID :** no

## Ordering and delivery information

P/N	Packaging
FP86150S245	1 pc/bag

## **Recommended connectivity**

**Keystone jack, unscreened** : MJ6UK, MJ6UKTC

**Keystone jack, unscreened** : KJ6ASTPNH, KJ6ASTPNY

## **Extended System Warranty**

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